

# Fortinet FS-424E

## Datasheet



## Product Overview

- Fortinet's FortiSwitch Secure Access series offers advanced secure switching, blending strong protection with high network performance.
- Ideal for businesses of all sizes, the FS-424E serves environments from branch offices to campus networks, catering to both SMBs and larger enterprises.
- It features 24 GE RJ45 and 4 10 GE SFP+ ports, a switching capacity of 128 Gbps, and delivers network latency of less than 1µs.
- Unique integrations include single-pane-of-glass management via FortiGate and flexible deployment with FortiLink and native modes.
- Centralized security, strong segmentation, and rapid switch stacking up to 300 devices create seamless, scalable network control.
- With robust features and simple, efficient operations, FS-424E helps organizations unify network security, access, and manageability with ease.

## Product Highlights

- **Flexible Deployment Options:** Designed for both desktop and wiring closet installations, supporting a variety of business network needs.
- **Centralized Management Integration:** Manage security and access directly from the FortiGate interface using FortiLink for unified control.
- **Network Convergence Capability:** Delivers voice, data, and wireless traffic over a single network, ideal for converged environments.
- **Scalable Port & Stacking Design:** Provides up to 48 ports in 1RU, and can be stacked up to 300 switches per FortiGate, ensuring future growth.

## Detailed Features



FS-424E

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Component	Specification
Total Network Interfaces	24x GE RJ45, 4x 10 GE SFP+ (SFP+ compatible with 1 GE SFP)
Switching Capacity	128 Gbps
Form Factor	1 RU Rack Mount
Management Port	1x 10/100 Mbps dedicated



## High Density and Performance

The FS-424E incorporates 24 Gigabit RJ45 ports and 4 10GE SFP+ uplinks, ensuring ample bandwidth for demanding access or aggregation roles. With a switching capacity of 128 Gbps, 204 Mpps throughput, and latency under 1 $\mu$ s, it efficiently addresses bottlenecks in dynamic IT environments, supporting large-scale desktop or data center setups without compromise.

## Stacking and Scalability

Supporting FortiLink stacking, the FS-424E allows seamless stacking of up to 300 switches under a single FortiGate. This enables simple expansion and efficient resource management in growing enterprises. Combining automatic switch discovery, auto Inter-Switch Links, and high availability, businesses can build resilient, scalable network backbones that evolve alongside organizational needs.

## Centralized Network Management

FS-424E integrates tightly with Fortinet Security Fabric, enabling centralized configuration, monitoring, and policy enforcement through FortiGate interfaces. Features include bulk firmware upgrades, dynamic VLAN configuration, and per-port dynamic profiles, reducing complexity and overhead for distributed or multi-branch deployments, and supporting network-wide policy consistency and rapid troubleshooting.

## Integrated Security Functions

Enterprises benefit from advanced features such as 802.1X (port, MAC, MAB), syslog collection, DHCP snooping, host quarantine, device detection, MAC black/white listing, and direct integration with FortiGuard IoT security. This ensures zero-trust onboarding, granular user/device visibility, and streamlined regulatory compliance for mission-critical networks.

## Advanced Policy Control

The FS-424E leverages FortiGate's Policy Control to enforce granular user and device access rules across the entire managed network. It supports user/device isolation, intra-VLAN traffic blocking, network device detection, and dynamic NAC, significantly lowering the attack surface and enhancing both policy flexibility and compliance control in highly regulated fields.

## High Availability and Redundancy

High availability is ensured via features such as active-active split LAG, redundant power, and FortiGate cluster support. Automated recommendations, firmware provisioning, and dynamic port configuration maximize network uptime, system resilience, and rapid response to hardware failure or configuration issues, critical for business continuity.

## Comprehensive L3 Services

When managed by FortiGate, the FS-424E delivers Layer 3 services such as L3 routing, policy-based routing, and virtual domains. This consolidates routing and access at the switch, streamlining inter-VLAN traffic and supporting complex campus or SD-Branch deployments needing multi-tenant separation and advanced traffic engineering.

## Integrated UTM Capabilities

Coupled with FortiGate, advanced security features like firewall, IPC, AV, application control, and botnet protection are enabled at the switch access level. Combined with switch controller traffic collection, organizations get holistic network protection, real-time security rating, and intelligent security recommendations tailored for enterprise and multi-site networks.

# Technical Specifications

## Product Specifications

Feature	Value
Total Network Interfaces	24x GE RJ45 and 4x 10 GE SFP+ ports (SFP+ ports compatible with 1 GE SFP)
Dedicated Management 10/100 Port	1
RJ-45 Serial Console Port	1
Form Factor	1 RU Rack Mount
Power over Ethernet (PoE) Ports	–
PoE Power Budget	N/A
Mean Time Between Failures	> 10 years
Switching Capacity (Duplex)	128 Gbps



Feature	Value
Packets Per Second (Duplex)	204 Mpps
MAC Address Storage	16 K
Network Latency	< 1µs
VLANs Supported	4 K
Link Aggregation Group Size	8
Total Link Aggregation Groups	Up to number of ports
Packet Buffers	2 MB
DRAM	1 GB DDR4
FLASH	256 MB
Height x Depth x Width (inches)	1.75 x 10.23 x 17.3
Height x Depth x Width (mm)	44 x 260 x 440
Weight	6.83 lbs (3.1 kg)
Power Required	100–240V AC, 50/60 Hz
Power Supply	AC built in
Redundant Power	Redundant AC
Power Consumption (Average / Maximum)	22.3 W / 23.6 W
Heat Dissipation	76.04 BTU/h
Operating Temperature	32–113°F (0–45°C)
Storage Temperature	-4–158°F (-20–70°C)
Humidity	5–95% non-condensing
Certification and Compliance	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2

## Product Comparison

Feature	FS-424E	C1-N5672UP-4FEX-1G	C9500-40X-2Q-E
Fixed Ports	24x GE RJ45, 4x 10 GE SFP+	48x 10 GE SFP+, 4x 40 GE QSFP+	40x 10 GE SFP+, 2x 40 GE QSFP+
Switching Capacity	128 Gbps	1.44 Tbps	2.56 Tbps
Packet Forwarding Rate	204 Mpps	1,072 Mpps	1,148 Mpps



Feature	FS-424E	C1-N5672UP-4FEX-1G	C9500-40X-2Q-E
PoE Capability	No	No	No
Stacking Support	Up to 300 switches via FortiLink	Yes	Yes
Management Integration	Centralized via FortiGate/ FortiLink	CLI, SNMP, API	Web/CLI, SNMP, NetFlow
L3 Routing Support	With FortiGate controller	Yes	Yes
Redundant Power	Supported	Supported	Supported

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- AC Power Cord</li> <li>- Rack Mount Kit</li> <li>- Quick Start Guide</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- SFP/SFP+ Transceivers</li> <li>- Redundant Power Supply Unit</li> <li>- Console Cable</li> </ul>



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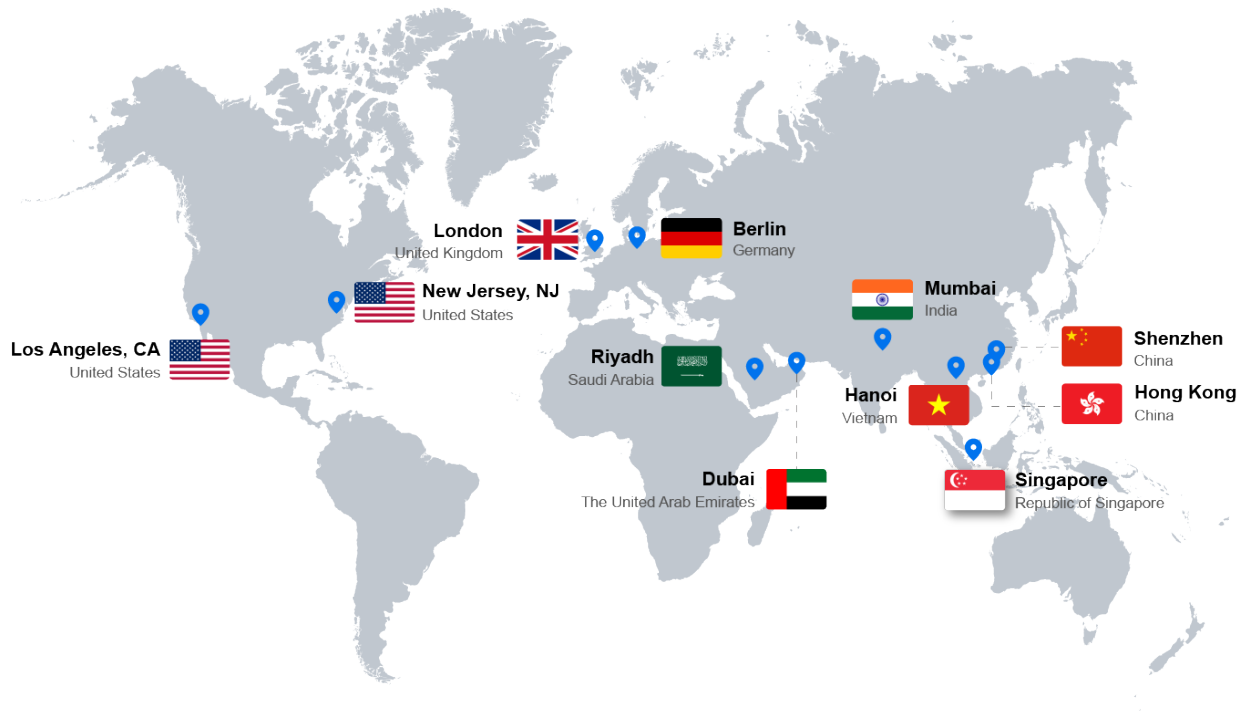
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## Global Footprint

Global Warehouses & Service Centers Across Continents.



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## References

[1] Fortinet. (2023). FortiSwitch Secure Access Series Datasheet. Retrieved from [https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396244/Security/Fortinet/Datasheet\\_FortiSwitch\\_Secure\\_Access\\_Series.pdf](https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396244/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf)